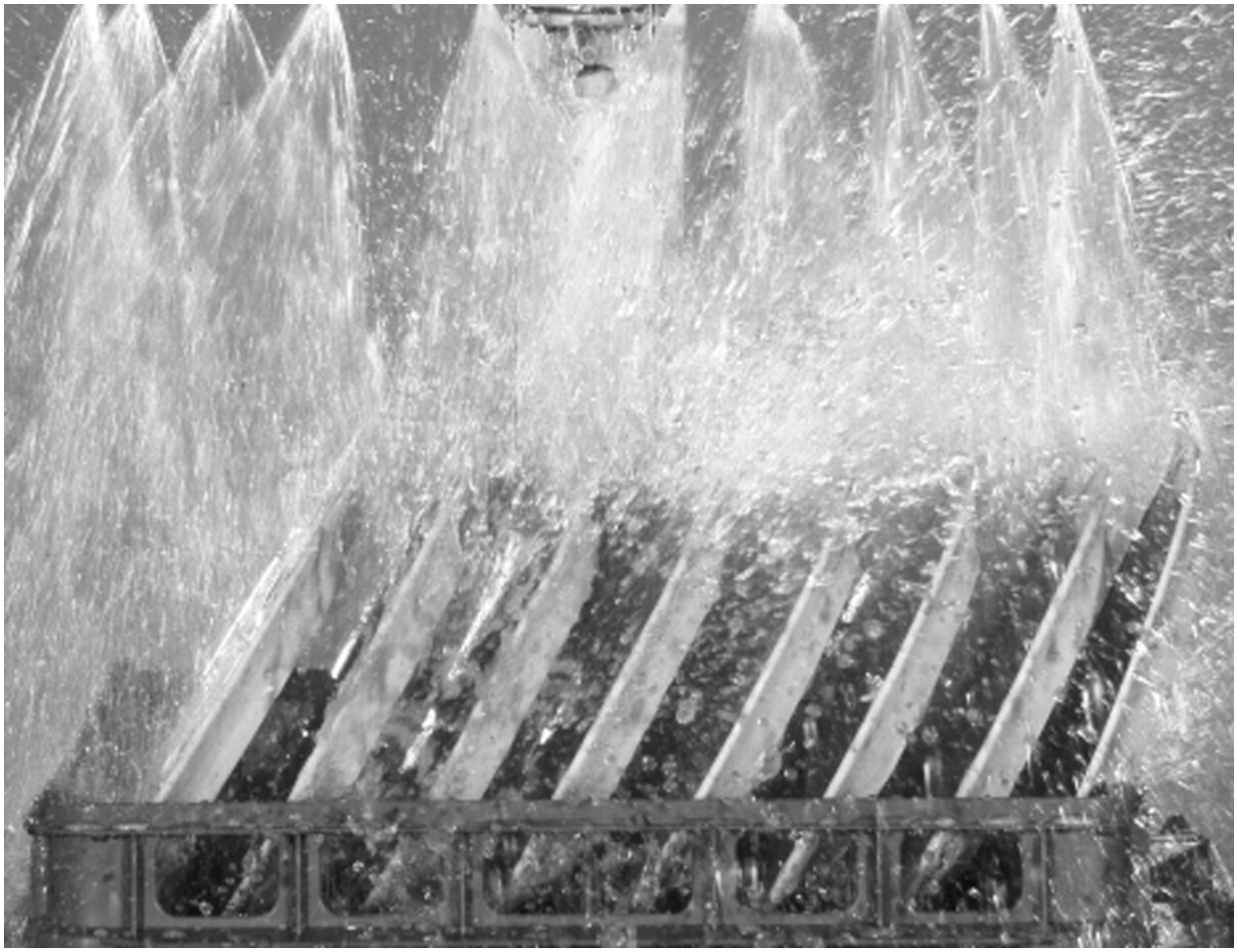
Operating instructions

Dish- and Glasswashing machine
EcoStar 530 F-M FA

Operating instructions



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2 Operation

This appliance is a technically-based piece of equipment and is not a consumer product within the meaning of the Regulations and Specifications (GPSG).

Without a thorough knowledge of the instructions „ Installation and setting in operation instructions “ the appliance must not be used. False operation could result in injuries or damages to the appliance.

2.1 Operating panel

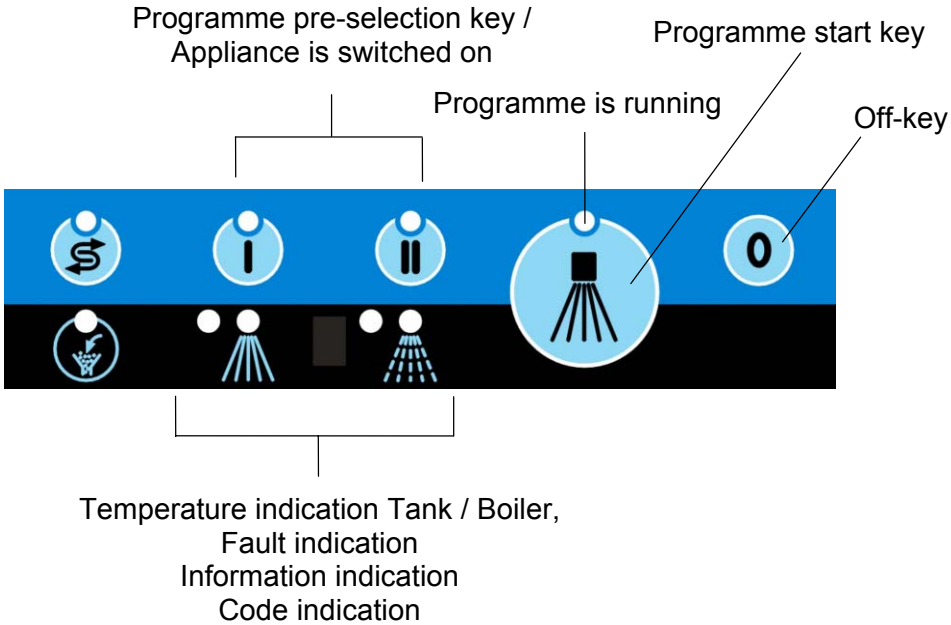

Illustration 1; Operating panel

Key/Indication	Meaning
	Normal cycle – Wash programme I
	Intensive cycle – Wash programme II
	Wash temperature
	Final rinse temperature
	Programme start Tank drain Self-cleaning cycle
	Switching off / Cycle interruption

Table 1; Assigned to Programme key/Items to be washed

2.2 Preparation for washing and rinsing

The below described preparation works must be carried out before each setting in operation.

- ➢ Open the door
- ➢ Place the screen and stand pipe in position.
- ➢ Close the door.

Danger of contusion!
Close the appliance with both hands!

- ➢ Switch on the appliance by pressing a programme pre-selection key.

During the filling and heating phase, the light above the pre-selection key will flash. When the light remains constantly lit, the machine is ready for operation.
The time until the operation readiness is reached depends on the temperature of the supplied water and the installed boiler, resp. tank heating capacity.
With cold water connection, the duration is about 35 minutes

2.3 Manual dosing of detergent

If there is no detergent dosing pump, the detergent must be added manually to the washing water. To obtain a concentration of 2 g/l, an initial amount of 40 g and a later addition of 30 g after each of 5 cycles should be added.
If the detergent is in powder form, the powder should be scattered evenly on the water in the tank and dissolved after the tank has been filled. This will prevent discolouration of stainless steel parts.

2.4 Automatic dosing

The required detergent and rinse aid is transported out of the containers into the tank, resp. boiler, via electronically controlled dosing units. The dosing is effected automatically acc. to the requirements arising during the wash process.

If unsuitable products are used, the life of the dosing equipment will be significantly shortened.

We therefore recommend that detergents should have a pH value greater than 7 and that rinse agents should have a pH value between 7 and 2.

2.5 Operation during washing and rinsing cycle

When inserting the items to be washed into the baskets, the following must be observed:

- Hollow ware always to be loaded **up side down**. Otherwise the water will be trapped inside and they will not dry to a brilliant finish.
- Plates, trays and big plates should always stand **at a slight angle** in the basket with their inside faces pointing upwards.
- When using cutlery quivers, ensure that cutlery is always inserted handle down.
- Load the quivers with a **mixture** of spoons, knives and forks, as identical items of cutlery can be too close together.
- Do **not overload** the quivers.
- Do not stack the dishes in the wash basket, as the wash water could not strike the items directly and the wash times would have to be unnecessarily prolonged. Short wash times with baskets which are not overloaded are much more economical.

2.5.1 Start the wash cycle

Programme start key

- Pre-wash the dishware (major food residues, serviettes, tooth picks, etc.) and place in the basket.
- Basket to be inserted into the appliance and correctly centred.
- Close the door.
- Press the programme start key.

The appliance washes and rinses automatically and switches off the wash programme after completion. The programme cycle is indicated by a light on the programme start key.

The wash time can differ from the adjusted programme time if the boiler heating capacity is not sufficient for heating up the supplied fresh water to the adjusted boiler temperature during the programme time. In this case, the automatic wash time extention is activated.

2.5.2 Remove the washed items

- When the light goes out, open the door and remove the basket.

3

Off-key

Setting the appliance out of operation

- Press the „0“-key (OFF-key). If no light is lit up, the appliance is out of operation.
- Remove the stand-pipe.

Programme start key

Machines without built-in drain pump:

- After the water has been drained from the tank, the tank is sprayed with clean hot water by pressing the Program Start button. The door must remain closed.

Machines with built-in drain pump:

- For draining the tank, press the programme start key.
- After the draining of the tank water, the tank interior is sprayed with hot fresh water. The door must remain closed. The waste water pump switches off automatically.

4

Maintenance and care

4.1 Care, general

The appliance has been designed to keep the need for cleaning, care and maintenance to a minimum.

However, for a reliable, safe and permanent function of the appliance and in the interest of hygiene and cleanliness a correct care and maintenance is necessary.

To facilitate the procedure, a maintenance contract can be concluded with the manufacturer or agency.

Works/repairs which were not correctly executed and the use of foreign parts through unauthorised persons, endanger the operators and the appliance and will invalidate the warranty.

4.2 Refilling of detergent

There are two different types of detergent containers:

Incorporated container

The storage container is translucent white in colour and is located in the lower part of the stationary dishwashing machine. The lid can be opened after the container has been removed from its position.

- Re-fill the container marked „detergent“ if necessary.

External container

The container is located next to the appliance.

- Check the filling level of the container and if necessary, replace it by a full one.

Only non-foaming alkali detergents (pH > 7) suitable for commercial dishwashers may be used.

4.3 Refilling of rinse aid

There are two different types of rinse aid containers:

Incorporated container

The container is situated behind the front panel in the lower part of the appliance. The front panel can be tilted towards the front after a slight lifting.

- Re-fill the container marked „rinse aid“ if necessary.

External container

The container is located next to the appliance.

- Check the filling level of the container and if necessary, replace it by a full one.

Only non-foaming acid rinse aid (pH < 7) suitable for commercial dishwashers may be used

4.4 Cleaning

After the tank draining, the following must be done:

- Food residues sticking to the tank, tank heating element and sieves must be removed with a brush.
- Disassemble the wash arms and rinse them with flowing water.
- Wash nozzles to be cleaned daily.
- Cleanness of final rinse nozzles must be checked weekly and if necessary they must be rinsed with flowing water.

The inserts should be inserted with the journal facing the direction of flow.

4.5 Maintenance of stainless steel surfaces

The appliance is made of high-quality stainless steel. Nevertheless, under certain conditions corrosion may appear.

For keeping the stainless steel surfaces constantly corrosion-free

- use only suitable products.

Use only products which do not attack the material, build up a film or cause discolourations.

4.6 De-scaling

If the appliance was operated with hard water, the boiler and wash tank could calcify, then a de-scaling of the tank interior, boiler housing, tank heating, boiler heating and wash and final rinse system becomes necessary.

For de-scaling the appliance, use only products suitable for industrial dishwashing machines. Please observe the instructions of the manufacturers of such products.

After de-scaling:

- Flush the de-scaling product completely out of the appliance. To do so, 1 or 2 rinse cycles with fresh water are necessary.

Even little amounts of left over de-scaling product may cause plastic components and sealing materials to deteriorate.

If the appliance is heavily scaled, you should charge the service engineer of the responsible agency with the de-scaling of the boiler.

5 Trouble-shooting

Despite being expertly designed, the machine may develop minor faults which are usually easy to eliminate. This section explains a number of possible problems and how you can deal with them yourself.

Before carrying out work on the appliance it must be disconnected from the power supply. The local main switch must be switched ”OFF“, or the local main fuse must be removed.

Should any of the described faults arise repeatedly, their cause must be established.

Faults not described here can in general only be eliminated by a technician or electrician. Please contact the agency responsible or the authorised dealer.

5.1 Information messages and trouble-shooting

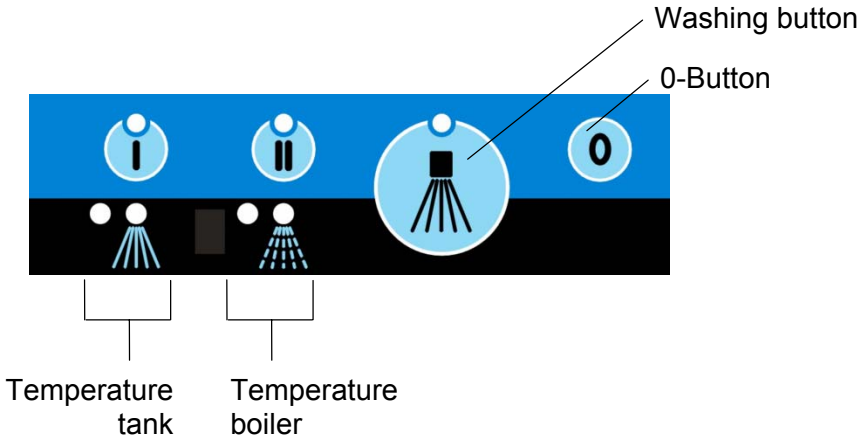

Illustration 2: Information display

5.1.1 Empty indication detergent/rinse agent (option):

If suction lances with conductivity sensors have been installed in the storage containers for detergent and / or rinse agent, the lights of the tank temperature display (left) will flash if one of the containers is empty.

The empty indication will be automatically cancelled when liquid is recognised in the relevant storage container.

5.1.2 Empty indication partial demineralisation cartridge (option):

If a partial demineralisation cartridge is used for water softening, it is possible to store the values for the cartridge capacity and the existing carbonate hardness in the controls (the service technician can set these values on site). In this way an automatic calculation and display of the exhausted cartridge is possible on the basis of the water consumption. The lights in the boiler temperature display (right) will flash if the cartridge is x. This indication will not be automatically cancelled when the cartridge is changed. This must be done manually as described in the Short Programming Manual.

5.2 COMMON FAULT messages with emergency service

If these fault messages are displayed, only limited operation of the machine is possible. The program times will certainly be extended when operating in emergency mode.

5.2.1 The tank temperature display (on the left) remains dark

The pre-set rinse water temperature is not reached in the time allowed. The cause can be a defective tank heating element or tank temperature sensor.

- Please notify the service engineer.

5.2.2 The boiler temperature display (on the right) remains dark

The pre-set rinse water temperature is not reached in the time allowed.The cause can be a defective boiler heating element or boiler temperature sensor.

- Please notify the service engineer.

5.2.3 Both temperature displays remain dark

This can indicate that the water supply from the building has been cut off or that the screen in the inlet valve is dirty. It is impossible to fill the wash tank.

- Notify the service engineer if the malfunction cannot be remedied by opening the water supply line or by cleaning the screen.

5.2.4 All displays remain dark

There is no power.

- Switch the main switch in the building or the main safety devices on.

If this does not rectify the fault, operation in emergency mode will no longer be possible.

- Please notify the service engineer in all cases.

6 Appendix

6.1 Name and address of manufacturer

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